

Michael E Cholette

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,080
citations

361413
20
h-index

434195
31
g-index

61
all docs

61
docs citations

61
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Soiling of solar collectors “ Modelling approaches for airborne dust and its interactions with surfaces. Renewable and Sustainable Energy Reviews, 2018, 81, 2343-2357.	16.4	74
2	Optimal Vehicle Trajectory Planning With Control Constraints and Recursive Implementation for Automated On-Ramp Merging. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3409-3420.	8.0	72
3	Ant colony algorithm for building energy optimisation problems and comparison with benchmark algorithms. Energy and Buildings, 2017, 154, 404-414.	6.7	60
4	Future energy-optimised buildings “ Addressing the impact of climate change on buildings. Energy and Buildings, 2021, 231, 110610.	6.7	59
5	Comparison of the effectiveness of analytical wake models for wind farm with constant and variable hub heights. Energy Conversion and Management, 2016, 124, 189-202.	9.2	57
6	Multi-layer PCM solidification in a finned triplex tube considering natural convection. Applied Thermal Engineering, 2017, 123, 901-916.	6.0	55
7	A state-constrained optimal control based trajectory planning strategy for cooperative freeway mainline facilitating and on-ramp merging maneuvers under congested traffic. Transportation Research Part C: Emerging Technologies, 2019, 109, 321-342.	7.6	47
8	Building energy optimisation under uncertainty using ACOMV algorithm. Energy and Buildings, 2018, 167, 322-333.	6.7	43
9	Degradation modeling and condition-based maintenance of boiler heat exchangers using gamma processes. Reliability Engineering and System Safety, 2019, 183, 184-196.	8.9	43
10	Optimal condition-based cleaning of solar power collectors. Solar Energy, 2017, 157, 762-777.	6.1	37
11	Design optimization method for tube and fin latent heat thermal energy storage systems. Energy, 2017, 134, 585-594.	8.8	36
12	Development and experimental validation of a physical model for the soiling of mirrors for CSP industry applications. Solar Energy, 2018, 173, 1287-1305.	6.1	35
13	Extracting failure time data from industrial maintenance records using text mining. Advanced Engineering Informatics, 2017, 33, 388-396.	8.0	34
14	Opportunistic maintenance considering non-homogenous opportunity arrivals and stochastic opportunity durations. Reliability Engineering and System Safety, 2017, 160, 151-161.	8.9	28
15	Optimization of wind farm layout with complex land divisions. Renewable Energy, 2017, 105, 30-40.	8.9	28
16	A multi-sensor approach to remaining useful life estimation for a slurry pump. Measurement: Journal of the International Measurement Confederation, 2019, 139, 140-151.	5.0	28
17	Effectiveness of optimized control strategy and different hub height turbines on a real wind farm optimization. Renewable Energy, 2018, 126, 819-829.	8.9	26
18	Building energy optimization using surrogate model and active sampling. Journal of Building Performance Simulation, 2020, 13, 760-776.	2.0	25

#	ARTICLE	IF	CITATIONS
19	Optimization of cleaning strategies for heliostat fields in solar tower plants. Solar Energy, 2020, 204, 501-514.	6.1	24
20	A computationally-efficient layout optimization method for real wind farms considering altitude variations. Energy, 2017, 132, 147-159.	8.8	23
21	Comparative study of discretization method and Monte Carlo method for wind farm layout optimization under Weibull distribution. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 180, 148-155.	3.9	23
22	Ecological and safe driving: A model predictive control approach considering spatial and temporal constraints. Transportation Research, Part D: Transport and Environment, 2019, 67, 208-222.	6.8	23
23	Degradation modeling and monitoring of machines using operation-specific hidden Markov models. IIE Transactions, 2014, 46, 1107-1123.	2.1	19
24	Using support vector machines for the computationally efficient identification of acceptable design parameters in computer-aided engineering applications. Expert Systems With Applications, 2017, 81, 39-52.	7.6	18
25	A multi-dimension clustering-based method for renewable energy investment planning. Renewable Energy, 2021, 172, 651-666.	8.9	18
26	Combined optimization of continuous wind turbine placement and variable hub height. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 180, 136-147.	3.9	14
27	Optimization of condition-based maintenance considering partial opportunities. Quality and Reliability Engineering International, 2020, 36, 529-546.	2.3	14
28	Monitoring of complex systems of interacting dynamic systems. Applied Intelligence, 2012, 37, 60-79.	5.3	12
29	Modelling the soiling of heliostats: Assessment of the optical efficiency and impact of cleaning operations. AIP Conference Proceedings, 2019, , .	0.4	11
30	Condition Monitoring and Operational Decision Making in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2013, 26, 454-464.	1.7	10
31	Optimal inspections and maintenance planning for anti-corrosion coating failure on ships using non-homogeneous Poisson Processes. Ocean Engineering, 2021, 238, 109695.	4.3	10
32	A Dual-Mode Model Predictive Control Algorithm Trajectory Tracking in Discrete-Time Nonlinear Dynamic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	9
33	Condition-based inspection policies for boiler heat exchangers. European Journal of Operational Research, 2021, 291, 232-243.	5.7	8
34	Sectorial reflectance-based cleaning policy of heliostats for Solar Tower power plants. Renewable Energy, 2020, 166, 176-189.	8.9	7
35	Energy Efficient and Safe Control Strategy for Electric Vehicles Including Driver Preference. IEEE Access, 2021, 9, 11109-11122.	4.2	6
36	Precedent-Free Fault Isolation in a Diesel Engine Exhaust Gas Recirculation System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	5

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37	Real-Time Joint Estimation of Traffic States and Parameters Using Cell Transmission Model and Considering Capacity Drop. , 2018, , .		5
38	A daylight-oriented multi-objective optimisation of complex fenestration systems. Building and Environment, 2021, 197, 107828.	6.9	5
39	A heuristic approach for scheduling patient treatment in an emergency department based on bed blocking. International Journal of Industrial Engineering Computations, 2020, , 565-584.	0.7	5
40	Dynamic thermal analysis of an external cylindrical receiver in an object-oriented modelling paradigm. AIP Conference Proceedings, 2022, , .	0.4	5
41	Energy Efficiency and Tracking Performance Evaluation for Dual-Mode Model Predictive Control of HVAC Systems. Journal of Thermal Science and Engineering Applications, 2018, 10, .	1.5	3
42	Automated On-Ramp Merging and Gap Development with Speed Constraints – A State-Constrained Optimal Control Approach. , 2018, , .		3
43	Battery Dispatching for End Users With On-Site Renewables and Peak Demand Charges – An Approximate Dynamic Programming Approach. IEEE Transactions on Control Systems Technology, 2022, 30, 2100-2114.	5.2	3
44	Precedent-Free Fault Isolation in a Diesel Engine EGR Valve System. , 2009, , .		2
45	A quantitative study on the impact of opportunistic maintenance in the presence of time-varying costs. , 2016, , .		2
46	Object-oriented modelling of an external receiver for solar tower application: Dynamic simulation and impact of soiling. AIP Conference Proceedings, 2020, , .	0.4	2
47	Benefit Assessment of New Ecological and Safe driving Algorithm using Naturalistic Driving Data. , 2018, , .		1
48	In-situ reflectivity monitoring of heliostats using calibration cameras. AIP Conference Proceedings, 2019, , .	0.4	1
49	CFStrace: An evaluation method to include complex fenestration systems in the façade design process. Solar Energy, 2021, 217, 253-262.	6.1	1
50	A Data Fusion Approach of Multiple Maintenance Data Sources for Real-World Reliability Modelling. Lecture Notes in Mechanical Engineering, 2016, , 69-77.	0.4	1
51	Potentials of condition based monitoring in semiconductor manufacturing. , 2012, , .		0
52	Model-Predictive Control and Closed-Loop Stability Considerations for Nonlinear Plants Described by Local ARX-Type Models. , 2013, , .		0
53	Predicting Maintenance Requirements for School Assets in Queensland. Lecture Notes in Mechanical Engineering, 2018, , 277-289.	0.4	0
54	A Case Study on the Replacement Policy for a Pan System of Sugar Industry. , 2019, , .		0

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55	STATER: Slit-Based Trajectory Reconstruction for Dense Urban Network With Overlapping Bluetooth Scanning Zones. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8316-8326.	8.0	0
56	Making Optimal and Justifiable Asset Maintenance Decisions. Lecture Notes in Mechanical Engineering, 2015, , 253-263.	0.4	0
57	A Decision Support Framework for Prioritization of Engineering Asset Management Activities Under Uncertainty. Lecture Notes in Mechanical Engineering, 2015, , 49-60.	0.4	0
58	Reliability Modelling for Electricity Transmission Networks Using Maintenance Records. Lecture Notes in Mechanical Engineering, 2016, , 397-406.	0.4	0
59	Bi-objective optimization of sectorial cleaning policy for the solar fields of concentrating solar tower plants. AIP Conference Proceedings, 2022, , .	0.4	0